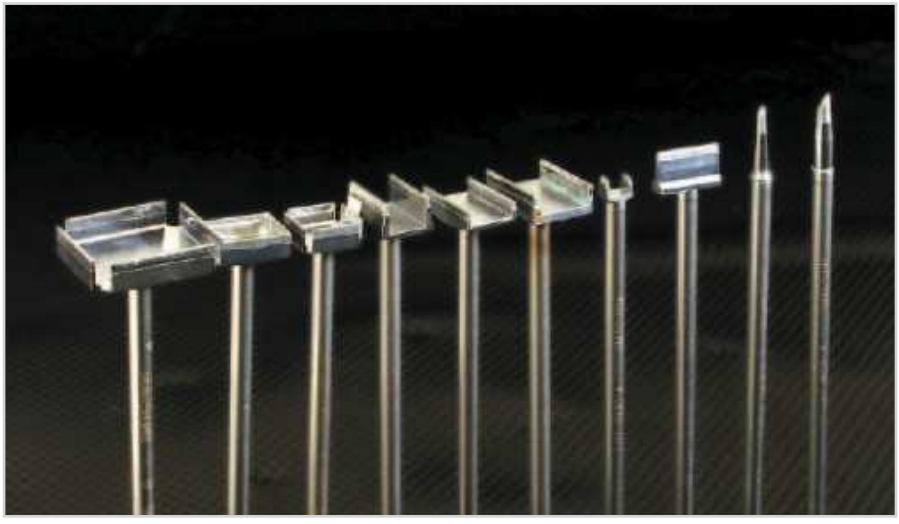
SMT Rework Tip Cartridges

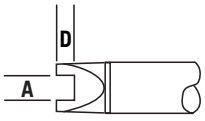
SMTC

Designed for reworking SMT components, SMTC tip cartridges do it all – assembly, removal and cleaning. The SMTC range includes slot, tunnel and quad tip cartridges. The SMTC range also includes hoof tips for drag soldering, blade tips to remove residual solder from pads, and knife tips for multi-lead soldering of PLCCs in tight places.

Please note: SMTC soldering tip cartridges are for use with the MX-RM3E soldering/rework hand-pieces for STSS/MX systems only. They cannot be used with SP systems, Talon® hand-pieces or desolder hand-pieces.

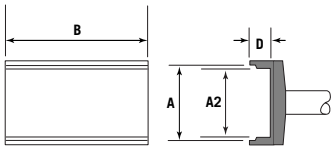


SLOT TIP CARTRIDGES



SMT TYPE	DIMENSIONS IN INCHES (mm) A	B	D	Part No.
Chip 0805	.090 (2.29)	.050 (1.27)	.070 (1.79)	SMTC-**X**01
Chip 1206, 1210	.140 (3.56)	.060 (1.52)	.070 (1.79)	SMTC-**X**02
Chip 1808, 1812	.190 (4.83)	.080 (2.03)	.075 (1.91)	SMTC-**X**03
Chip, Box A (EIA SOPM-3224)	.135 (3.43)	.080 (2.03)	.120 (3.05)	SMTC-**X**35
Chip, Box B (EIA SOPM-3528)	.150 (3.81)	.095 (2.41)	.100 (2.54)	SMTC-**X**32
Melf, Box B (EIA SOPM-4532)	.190 (4.83)	.110 (2.79)	.160 (4.06)	SMTC-**X**36
Chip, Box C (EIA SOPM-6032)	.250 (6.35)	.095 (2.41)	.130 (3.30)	SMTC-**X**33*
Chip, Box D (EIA SOPM-7246)	.300 (7.62)	.100 (2.54)	.140 (3.56)	SMTC-**X**34*
SOT-23	.068 (1.73)	.100 (2.54)	.050 (1.27)	SMTC-**X**05
SOT-89	.110 (2.80)	.250 (6.35)	.080 (2.03)	SMTC-**X**08
Chip 0402, 0603, 0805 (angled)	.080 (2.03)	.050 (1.27)	.060 (1.52)	SMTC-**X**88
Chip 0402, 0603	.070 (1.78)	.040 (1.02)	.040 (1.02)	SMTC-**X**96

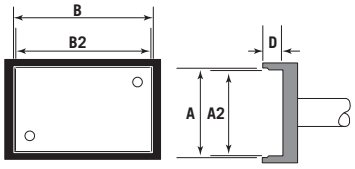
500 SERIES X=5 **600 SERIES X=0** **700 SERIES X=1** ***=NOT AVAILABLE FOR 500 SERIES**



TUNNEL TIP CARTRIDGES FOR DUAL IN-LINE PACKAGES

	DIMENSIONS IN INCHES (mm)				
SMT TYPE	**A2**	**A**	**B**	**D**	**Part No.**
DPAC	.335 (8.51)	.335 (8.51)	.250 (6.35)	.200 (5.08)	SMTC-**X**47
SO-8	.320 (8.13)	.380 (9.65)	.750 (19.05)	.240 (6.10)	SMTC-**X**107
SO-16	.330 (8.38)	.330 (8.38)	.475 (12.07)	.230 (5.84)	SMTC-**X**46*
SO-8	.335 (8.51)	.335 (8.51)	.665 (16.90)	.250 (6.35)	SMTC-**X**68**
SOIC-8	.200 (5.08)	.200 (5.08	.170 (4.32)	.090 (2.29)	SMTC-**X**04
SOIC-14,-16	.200 (5.08)	.200 (5.08)	.400 (10.16)	.090 (2.29)	SMTC-**X**06
SOIC-14	.204 (5.18)	.204 (5.18)	.350 (8.89)	.100 (2.54)	SMTC-**X**142
SOIC-24 (Mini flat pack)	.280 (7.11)	.280 (7.11)	.620 (15.75)	.125 (3.18)	SMTC-**X**77
SOIC-16 (Wide)	.320 (8.13)	.320 (8.13)	.470 (11.94)	.270 (6.86)	SMTC-**X**124
SOIC-20	.375 (9.53)	.375 (9.53)	.520 (13.21)	.125 (3.18)	SMTC-**X**10
SOIC-24	.375 (9.53)	.375 (9.53)	.620 (15.75)	.125 (3.18)	SMTC-**X**09
SOIC-28, SOL-34	.375 (9.53)	.375 (9.53)	.720 (18.29)	.125 (3.18)	SMTC-**X**07
SOIC-32	.520 (13.21)	.520 (13.21)	.805 (20.45)	.170 (4.32)	SMTC-**X**42
SOJ-28, SOM-36	.315 (8.00)	.340 (8.64)	.740 (18.80)	.074 (1.88)	SMTC-**X**26
SOJ-32, 34	.315 (8.00)	.340 (8.64)	.840 (21.34)	.125 (3.18)	SMTC-**X**140
SOJ-40, SOM-32	.410 (10.41)	.450 (11.43)	1.020 (25.91)	.075 (1.91)	SMTC-**X**40
SOJ-42	.410 (10.41)	.450 (11.43)	1.070 (27.18)	.125 (3.18)	SMTC-**X**148
SOMC-14,-16, DB-20	.270 (6.86)	.270 (6.86)	.440 (11.18)	.090 (2.29)	SMTC-**X**20
SOP-20	.270 (6.86)	.270 (6.86)	.285 (7.24)	.100 (2.54)	SMTC-**X**138
SOP-28	.420 (10.67)	.420 (10.67)	.720 (18.29)	.125 (3.18)	SMTC-**X**39
SOP-40	.460 (11.68)	.510 (12.95)	1.000 (25.4)	.125 (3.18)	SMTC-**X**134*
SOP-44	.510 (12.95)	.565 (14.35)	1.070 (27.18)	.105 (2.67)	SMTC-**X**83
TSOP-28	.470 (11.94)	.505 (12.83)	.320 (8.13)	.065 (1.65)	SMTC-**X**95
TSOP-40	.730 (18.54)	.760 (19.30)	.400 (10.16)	.120 (3.05)	SMTC-**X**154
TSOP-56	.730 (18.54)	.760 (19.30)	.556 (14.12)	.120 (3.05)	SMTC-**X**162
TSOP-32	.730 (18.54)	.760 (19.30)	.320 (8.13)	.120 (3.05)	SMTC-**X**84**

600 SERIES X=0 700 SERIES X=1 *=NOT AVAILABLE FOR 600 SERIES
****=NOT AVAILABLE FOR 700 SERIES**

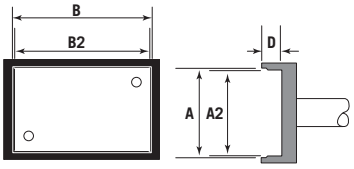


QUAD TIP CARTRIDGES FOR PLCC

SMT TYPE	**A2**	**A**	**B2**	**B**	**D**	**Part No.**
PLCC 18	.300 (7.62)	.330 (8.38)	.500 (12.70)	.530 (13.46)	.150 (3.81)	SMTC-**X**11
PLCC 20	.360 (9.14)	.400 (10.16)	.360 (9.14)	.400 (10.16)	.150 (3.81)	SMTC-**X**12
PLCC 28	.370 (9.40)	.410 (10.41)	.570 (14.48)	.610 (15.49)	.150 (3.81)	SMTC-**X**103
PLCC 32	.450 (11.43)	.500 (12.70)	.550 (13.97)	.600 (15.24)	.150 (3.81)	SMTC-**X**16
PLCC 28	.455 (11.56)	.500 (12.70)	.455 (11.58)	.500 (12.70)	.150 (3.81)	SMTC-**X**13
PLCC 44	.660 (16.76)	.700 (17.78)	.660 (16.76)	.700 (17.78)	.150 (3.81)	SMTC-**X**14
PLCC 68	.960 (24.38)	.995 (25.27)	.960 (24.38)	.995 (25.27)	.220 (5.59)	SMTC-**X**18*
PLCC 68 dual•	.960 (24.38)	.995 (25.27)	.960 (24.38)	.995 (25.27)	.220 (5.59)	SMTC-**X**28
PLCC 84 dual•	1.165 (29.59)	1.195 (30.35)	1.165 (29.59)	1.195 (30.35)	.220 (5.59)	SMTC-**X**29
PLCC 52	.760 (19.30)	.800 (20.32)	.760 (19.30)	.800 (20.32)	.150 (3.81)	SMTC-**X**17*
PLCC 84	1.165 (29.59)	1.195 (30.35)	1.165 (29.59)	1.195 (30.35)	.220 (5.59)	SMTC-**X**19*

600 SERIES X=0 700 SERIES X=1 FOR ALL QUADS USE 700 SERIES TIP CARTRIDGES
***=NOT AVAILABLE FOR 600 SERIES**

Please note: •Dual tip cartridges require two power supply units and two hand-pieces. A Dual Hand-Piece Support (MX-DHS) is also recommended.

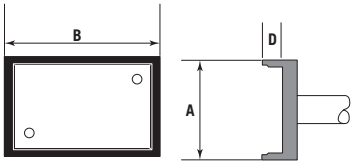


QUAD TIP CARTRIDGES FOR QFP

	DIMENSIONS IN INCHES (mm)					
SMT TYPE	**A2**	**A**	**B**	**B2**	**D**	**Part No.**
SQFP 48 (EIAJ)	.330 (8.38)	.330 (8.38)	.330 (8.38)	.330 (8.38)	.100 (2.54)	SMTC-**X**121
SQFP 64 (EIAJ)	.440 (11.18)	.440 (11.18)	.440 (11.18)	.440 (11.18)	.100 (2.54)	SMTC-**X**120
TQFP 44	.440 (11.18)	.480 (12.19)	.480 (12.19)	.520 (13.21)	.110 (2.79)	SMTC-**X**159
TQFP 80	.485 (12.32)	.525 (13.34)	.485 (12.32)	.525 (13.34)	.110 (2.79)	SMTC-**X**132
QFP 48	.550 (13.97)	.550 (13.97)	.550 (13.97)	.550 (13.97)	.130 (3.30)	SMTC-**X**115
VQFP 100 (EIAJ)	.570 (14.48)	.610 (15.49)	.570 (14.48)	.610 (15.49)	.110 (2.79)	SMTC-**X**118
QFP 128 (3.2 mm fp)	.620 (15.75)	.620 (15.75)	.860 (21.84)	.860 (21.84)	.130 (3.30)	SMTC-**X**133
QFP 44	.635 (16.13)	.635 (16.13)	.635 (16.13)	.635 (16.13)	.130 (3.30)	SMTC-**X**21
QFP 100 (rectangular)	.650 (16.51)	.650 (16.51)	.885 (22.48)	.885 (22.48)	.130 (3.30)	SMTC-**X**43
QFP 64, 80	.675 (17.15)	.675 (17.15)	.910 (23.11)	.910 (23.11)	.130 (3.30)	SMTC-**X**15
QFP 100	.805 (20.45)	.805 (20.45)	.805 (20.45)	.805 (20.45)	.190 (4.83)	SMTC-**X**45*
QFP 144	.805 (20.45)	.840 (21.34)	.805 (20.45)	.840 (21.34)	.075 (1.91)	SMTC-**X**122
QFP 132	.985 (25.02)	1.020 (25.91)	.985 (25.02)	1.020 (25.91)	.125 (3.18)	SMTC-**X**86
QFP 100 (square)	1.040 (26.42)	1.040 (26.42)	1.040 (26.42)	1.040 (26.42)	.130 (3.30)	SMTC-**X**44*
QFP 208 DUAL•	1.125 (28.58)	1.770 (44.96)	1.125 (28.58)	1.170 (44.96)	.114 (2.90)	SMTC-**X**81
QFP 120,160 DUAL•	1.165 (29.59)	1.200 (30.48)	1.165 (29.59)	1.200 (30.48)	.120 (3.05)	SMTC-**X**48
PQFP 240 DUAL•	1.290 (32.77)	1.330 (33.78)	1.290 (32.77)	1.330 (33.78)	.110 (2.79)	SMTC-**X**125
QFP 304 DUAL•	1.600 (40.64)	1.650 (41.91)	1.650 (41.91)	1.600 (40.64)	.200 (5.08)	SMTC-**X**158**

600 SERIES X=0 700 SERIES X=1 FOR ALL QUADS USE 700 SERIES TIP CARTRIDGES
***= NOT RECOMMENDED FOR 600 SERIES **= NOT AVAILABLE FOR 600 SERIES**

Please Note: •Dual tip cartridges require two power supply units and two hand-pieces. A Dual Hand-Piece Support (MX-DHS) is also recommended.

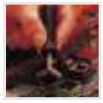


SOCKET TIP CARTRIDGES (TIP INSIDE SOCKET)

SMD COMPONENT	A	B	D	Part No.	Recommended Part No.
PLCC-20 SOCKET	.360 (9.14)	.360 (9.14)	.115 (2.91)	SMTC-**X**144	SMTC-1144
PLCC-32 SOCKET	.456 (11.58)	.556 (14.12)	.120 (3.05)	SMTC-**X**109	SMTC-1109
PLCC-84 SOCKET DUAL•	1.160 (40.64)	1.160 (40.64)	.115 (2.91)	SMTC-**X**145	SMTC-1145

600 SERIES X=0 700 SERIES X=1 FOR ALL QUADS USE 700 SERIES TIP CARTRIDGES

Please Note: •Dual tip cartridges require two power supply units and two hand-pieces. A Dual Hand-Piece Support (MX-DHS) is also recommended.



Speciality Tip Cartridges

BLADE TIP CARTRIDGES

SMTC-X110**
Blade
Dual Heater Quad
1.55" (39.37mm)

SMTC-X62
Blade
0.870" (22.10mm)
Long

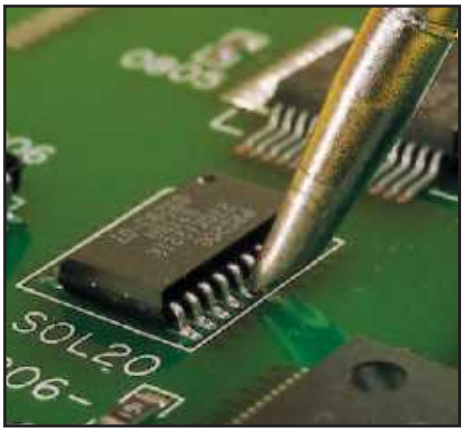
SMTC-X61
Blade
0.620" (15.75mm)
Long

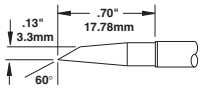
SMTC-X60
Blade
0.410" (10.41mm)
Long

500 SERIES X=5 600 SERIES X=0 700 SERIES X=1 800 SERIES X=8

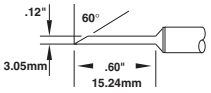
****=NOT AVAILABLE FOR 500 OR 800 SERIES**

HOOF AND KNIFE TIP CARTRIDGES FOR DRAG SOLDERING

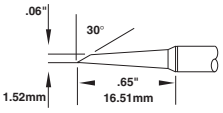




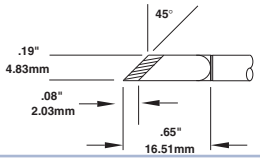
SMTC-X147*
Hoof



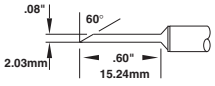
SMTC-X170*
Long Reach Hoof



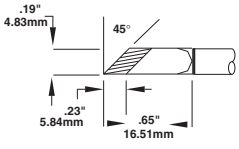
SMTC-X167**
Mini-Hoof



SMTC-X161*
Knife
(Tinned Area, .08" 2.03mm)



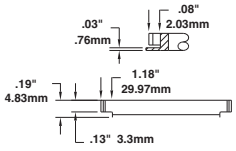
SMTC-X169**
Long Reach Hoof



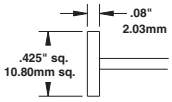
SMTC-X173
Knife
(Increased Tinned Area, .23" 5.84mm)

500 SERIES X=5 600 SERIES X=0 700 SERIES X=1 800 SERIES X=8

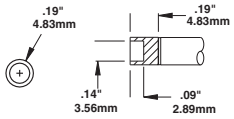
***=NOT AVAILABLE FOR 800 SERIES **=NOT AVAILABLE FOR 500 OR 800 SERIES**



SMTC-X98**
SMT Connector
28 Pin



SMTC-X136**
Hot Plate
.425" sq. (10.8mm sq.)



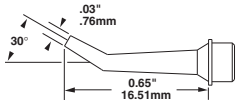
SMTC-X100
Micro XMT
Small Package
Co-Axial Tip

500 SERIES X=5 600 SERIES X=0 700 SERIES X=1 800 SERIES X=8

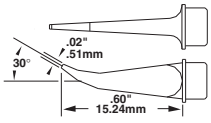
****=NOT AVAILABLE FOR 500 OR 800 SERIES**

Microfine Rework Tip Cartridges

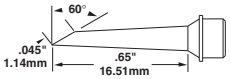
The Microfine rework tip cartridge series is designed for reworking 0201 and 0402 or microfine components in tight spaces with the help of a microscope. This series includes tips that can be used to remove 0402 and 0201 components from the topside approach or can also be used for multi-lead drag soldering on micro PLCC and QFP components with access problems. Depending on your application, one of these tips will meet your micro component rework needs.



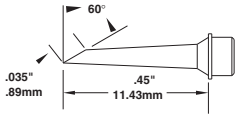
SMTC-X171
Use to remove 0201 and 0402 components from a "topside" angle. This design increases microscope viewing when reworking/removing micro chip capacitors/components.



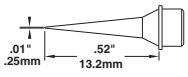
SMTC-X172
Designed for fine drag soldering and point-to-point soldering. This tip increases access between components and allows for lead to lead or solder bridge clean-up.



SMTC-X174
Long reach micro hoof tip designed with a smaller surface area than the mini-hoof for optimal drag soldering of components in tight spots.



SMTC-X175
Micro-hoof tip designed with a smaller surface area than the mini-hoof for drag soldering of small/micro leaded components.



STTC-X90
Microfine tip designed for soldering and touch-up of micro components such as 0201s and 0402s.

500 SERIES X=5 600 SERIES X=0 700 SERIES X=1 800 SERIES X=8